



UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Scott R. Velazquez, Steven R. Broadstone and Alice M. Chiang  
Application No.: 10/619,382 Filed Date: July 14, 2003  
Confirmation No. 5431 Group: 3662 Examiner: Not assigned  
For: Communication System Using Geographic Position Data

CERTIFICATE OF MAILING	
I Hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450	
on <u>March 16, 2004</u>	<u>Mary P. McDermott</u> Signature
<u>MARY P. McDERMOTT</u> Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or  
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☐ under 37 CFR 1.97(c) together with either:  
☐ a Statement under 37 CFR 1.97(e), as checked below, or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(More than 3 months after receipt of the International Search Report, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:  
☐ a Statement under 37 CFR 1.97(e), as checked below, and  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):  
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.  
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Enclosed herewith is form PTO-1449:

- ☒ Copies of the cited references [AL-AQ, AL2-AN2, AR-AS and AV-AY] are enclosed.
- ☒ In accordance with 37 C.F.R. § 1.98 (d), copies of cited references [AA-AK, AA2-AH2 and AT-AU] are not enclosed as these references were entered in earlier application, U.S. Application No. 09/188,835, now Patent No. 6,593,880, to which the present application claims priority under 35 U.S.C. 120. The earlier application contains copies of the cited references.
- ☒ If copies of references [AA-AK, AA2-AH2 and AT-AU] would benefit the Examiner of this case, the Examiner is invited to call the undersigned attorney and copies will be forwarded immediately.
- ☒ Listed references AE, AL-AM, AP-AQ, AL2 and AN2 were cited in the enclosed International Search Report in a counterpart foreign application.

Concise Explanation Requirement (non-English references):

- ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
  - ☐ the explanation provided in the Specification.
  - ☐ submission of the enclosed International Search Report.
  - ☐ the enclosed English language abstract.

☐ Applicant requests that the following pending applications be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], Publication No. [ ], Publication Date [ ],  
by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_ U.S. Patent Application No. [ ], Publication No. [ ], Publication Date [ ],  
by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_ U.S. Patent Application No. [ ], Publication No. [ ], Publication Date [ ],  
by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

☐ A copy of each above-cited application, including the current claims, is enclosed.

☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

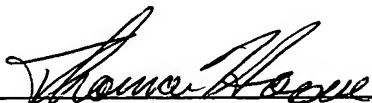
☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

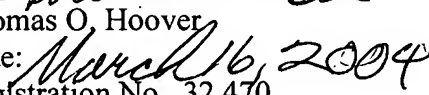
☐ Please charge Deposit Account No. 50-1935 in the amount of \$[ ]. A copy of this Statement is enclosed.

☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account No. 50-1935.

Respectfully submitted,

BOWDITCH & DEWEY, LLP

By   
Thomas O. Hoover

Date: 

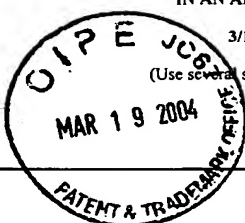
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PTO-1449 REPRODUCED  INFORMATION DISCLOSURE CITATION IN AN APPLICATION  <div style="text-align: center;">  </div> <div style="text-align: center;">         3/15/2004          (Use several sheets if necessary)       </div>				ATTORNEY DOCKET NO. 301496.1003-116		APPLICATION NO. 10/619,382	
				APPLICANT Scott R. Velazquez, Steven R. Broadstone and Alice M. Chiang			
				FILING DATE July 14, 2003		GROUP ART UNIT 3662	
U.S. PATENT DOCUMENTS							
EXAM- -INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA	4,827,268	05/02/89	Rosen	342	368	
	AB	4,894,842	01/16/90	Broekhoven <i>et al.</i>	375	1	
	AC	5,327,143	07/05/94	Goetz <i>et al.</i>	342	382	
	AD	5,373,531	12/13/94	Kawasaki	375	1	
	AE	5,383,164	01/17/95	Sejnowski <i>et al.</i>	67	134	
	AF	5,539,415	07/23/96	Metzen <i>et al.</i>	343	700 MS	
	AG	5,564,098	10/08/96	Rodal <i>et al.</i>	455	314	
	AH	5,594,453	01/14/97	Rodal <i>et al.</i>	342	357	
	AI	5,596,600	01/21/97	Dimos <i>et al.</i>	375	206	
	AI	5,736,785	06/09/98	Chiang	73	609	
	AK	5,818,385	10/06/98	Bartholomew	342	372	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AI	0 540 387 A2	05 May 93	EPO			
	AM	0 587 954 A1	23 Mar 94	EPO			
	AN	0 815 793 A2	07 Jan 98	EPO			
	AO	0 815 793 A3	20 Oct 99	EPO			
	AP	2 271 486 A	13 Apr 94	United Kingdom			
	AQ	2 727 268	24 May 96	France			X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	Sekiguchi <i>et al.</i> , "Design of Two Dimensional FIR Digital Filters Used for Broadband and Digital Beamforming by Combination of Spectral Transformation and Window Method" 1996 IEEE.					
	AS	Claesson <i>et al.</i> , "A Multi-DSP Implementation of a Broad Band Adaptive Beamformer for Use in a Hands-Free Mobile Radio Telephone", IEEE Trans. on Veh. Tech., vol. 40, No. 1, p. 194-202.					
	AT	Swales <i>et al.</i> , "The Performance Enhancement of Multibeam Adaptive Base Station Antennas For Cellular Land Mobile Radio Systems", IEEE Trans. on Veh. Tech., vol. 39, No. 1, p. 56-67.					
EXAMINER				DATE CONSIDERED			

PTO-1449 REPRODUCED  INFORMATION DISCLOSURE CITATION IN AN APPLICATION  3/15/2004  (Use several sheets if necessary)				ATTORNEY DOCKET NO. 301496.1003-116		APPLICATION NO. 10/619,382	
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U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA2	5,848,105	12/08/98	Gardner <i>et al.</i>	375	336	
	AB2	5,857,155	01/05/99	Hill <i>et al.</i>	455	456	
	AC2	5,917,446	06/29/99	Greenspan	342	373	
	AD2	6,011,512	01/04/00	Cohen	342	372	
	AE2	6,018,643	01/25/00	Golemon <i>et al.</i>	455	63	
	AF2	6,169,513	01/02/01	Cohen	342	354	
	AG2	6,512,481	01/28/03	Velazquez <i>et al.</i>	342	367	
	AH2	6,593,880	07/15/03	Velazquez <i>et al.</i>	342	367	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES      NO
	AL2	WO 94/09568	28 Apr 94	PCT			
	AM2	WO 98/16077	16 Apr 98	PCT			
	AN2	WO 96/22662	25 Jul 96	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AU	Bush, Stephen <i>et al.</i> , "A Control and Management Network for Wireless ATM Systems", IEEE Int'l Conf on Comm. '96, vol. 1, p. 459-463, 1996.					
	AV	Van Veen, Barry D. <i>et al.</i> , "Beamforming: A versatile Approach to Spatial Filtering", IEEE ASAP Magazine, Apr. 1988, pp. 4-24.					
	AW	Tanaka, T. <i>et al.</i> , "Digital Signal Processor for Digital Multi-Beam forming Antenna in Mobile Communication", 1994 IEEE Vehicular Technology Conference, June. 1994, pp. 1507-1511, vol. 3.					
	AX	Cooper, M., and Goldburg Ph.D., M., "Intellegent Antennas: Spatial Division Multiple Access" <i>Annual Review of Communications</i> , pp. 999-1002 (1996).					
	AY	Cooper, M., "A Layman's Guide to Cellular" <i>Annual Review of Communications</i> , pp. 993-997 (1996).					
EXAMINER				DATE CONSIDERED			